

Fig. 1

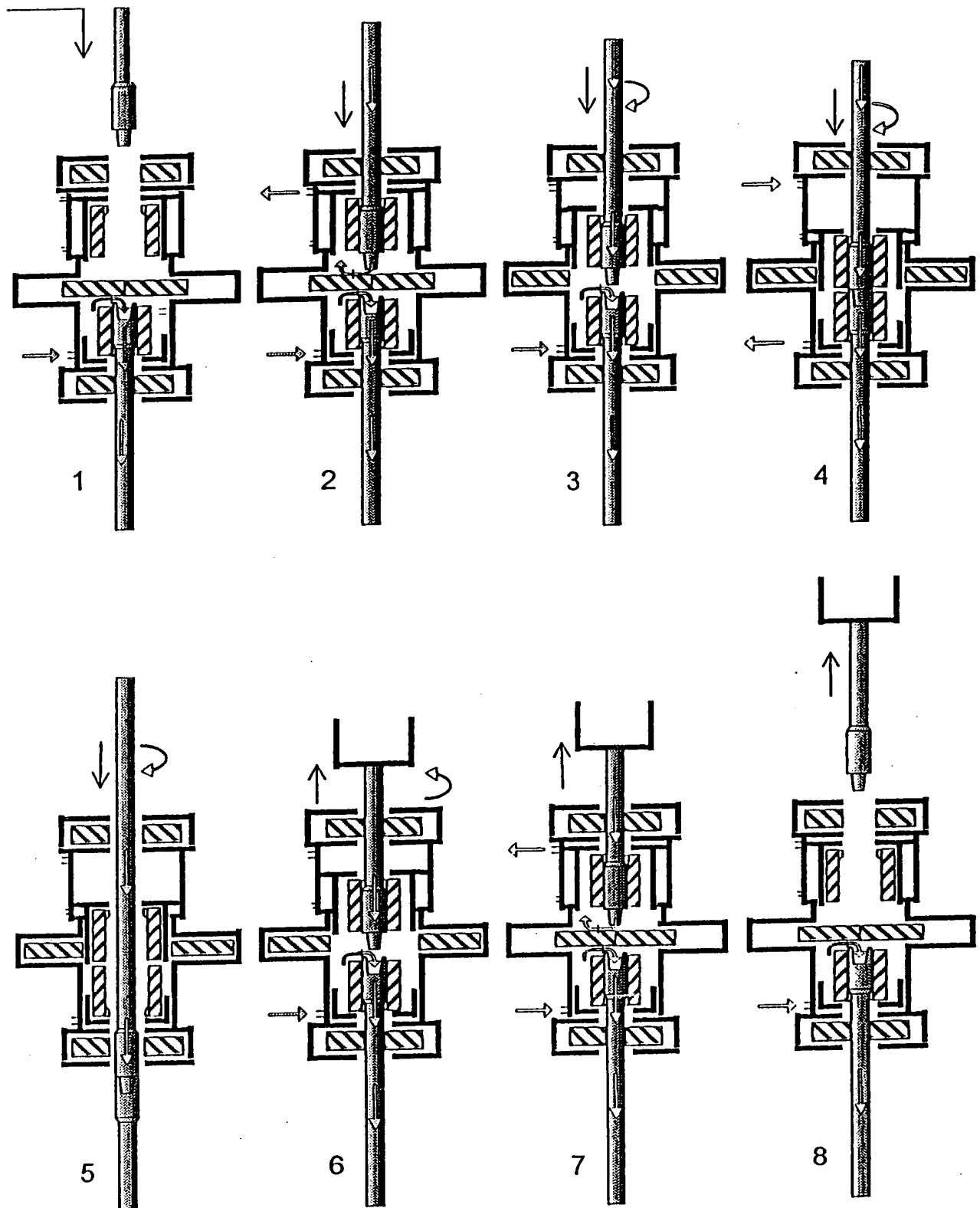
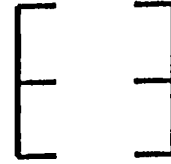


Fig. 2

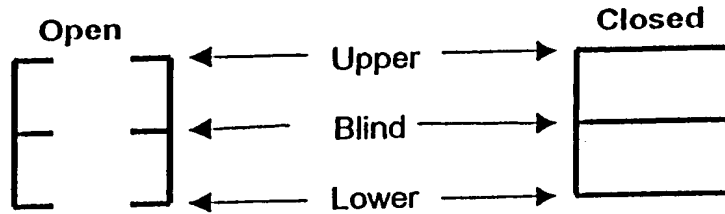
Grips and Slips
denoted by:



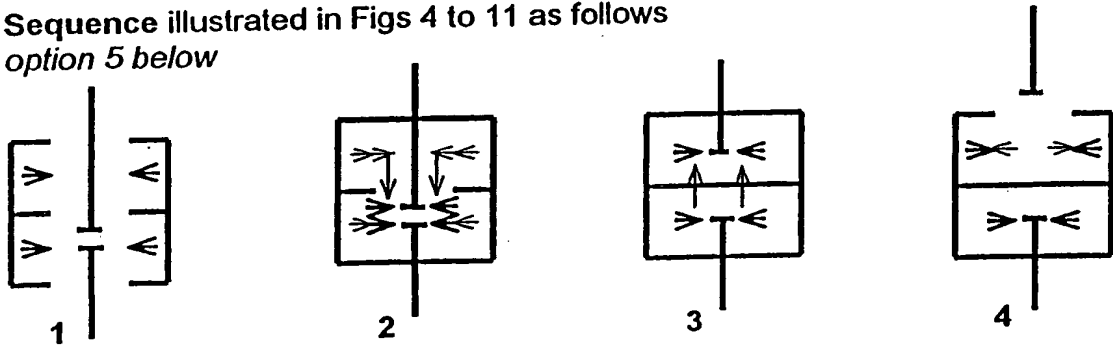
Pressure hull
denoted by:



Preventers denoted as follows:



Couplers Sequence illustrated in Figs 4 to 11 as follows
Assuming option 5 below



Options for locating the Upper and Lower Grips and Slips
Relative to the pressure hull

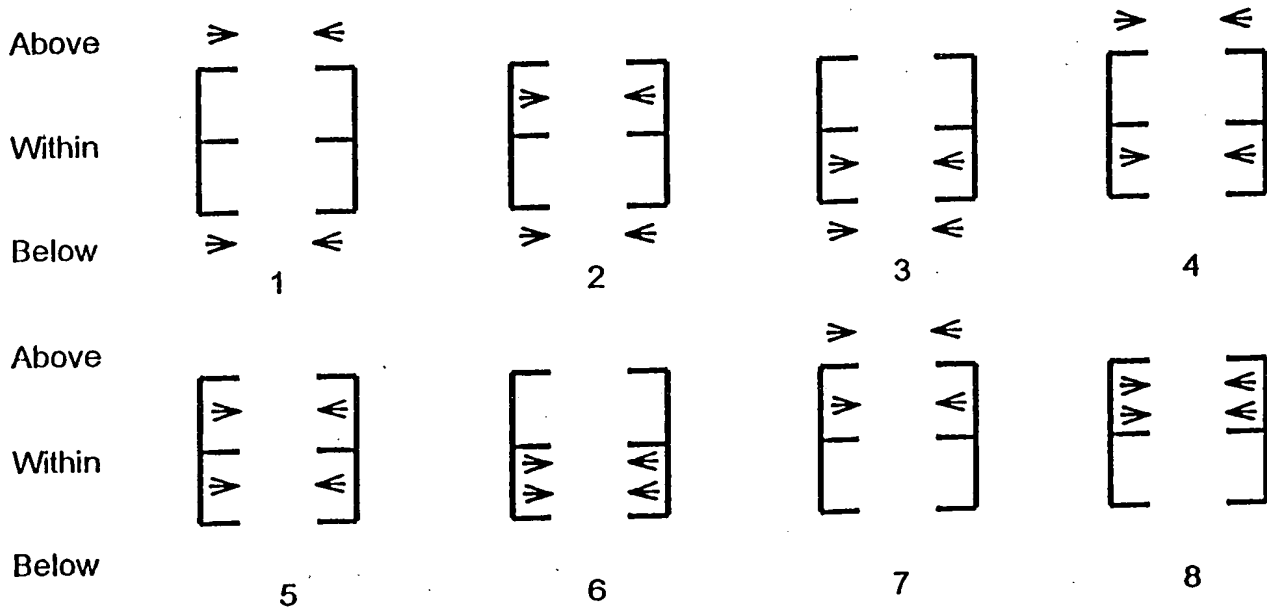
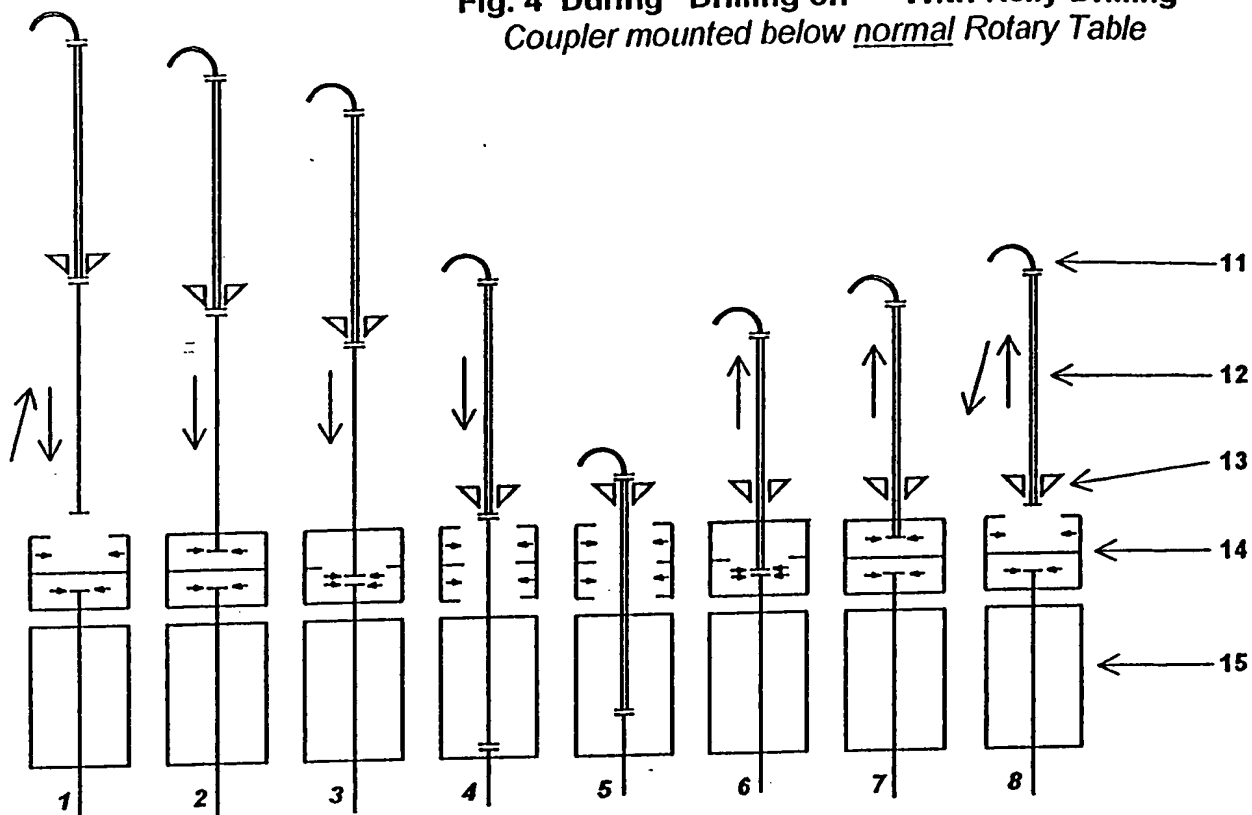


Fig. 3

**Fig. 4 During "Drilling on" - With Kelly Drilling
Coupler mounted below normal Rotary Table**



**Fig. 5 During "Drilling on" - With Kelly Drilling
Coupler mounted below elevated Rotary Table**

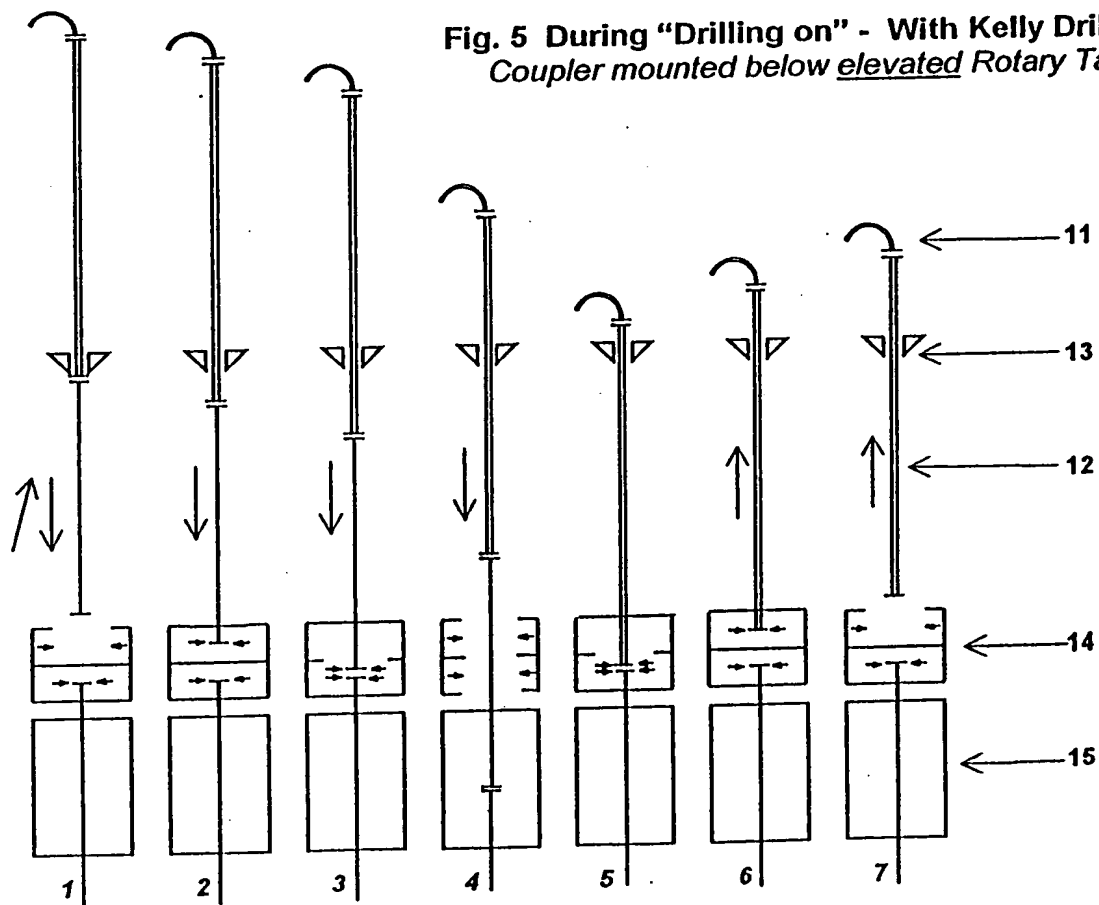


Fig. 6 During "Drilling on" - with Top Drive Drilling Coupler mounted on or below the Rig Floor

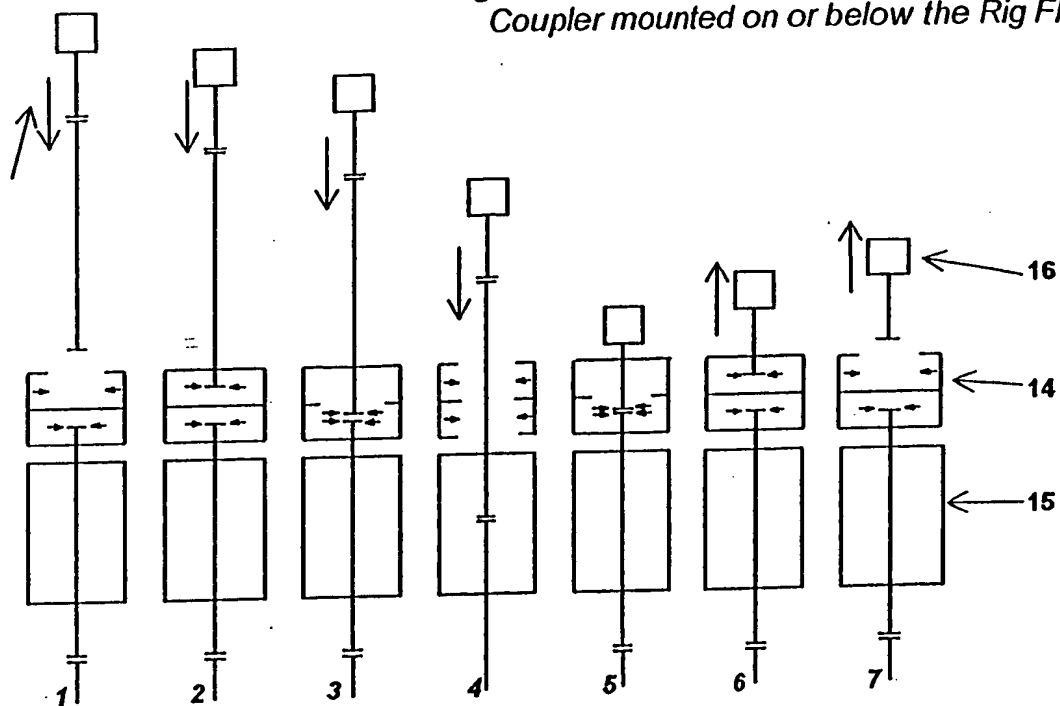


Fig. 7 During "Drilling on" - with Top Drive Drilling Coupler integrated with BOP Stack

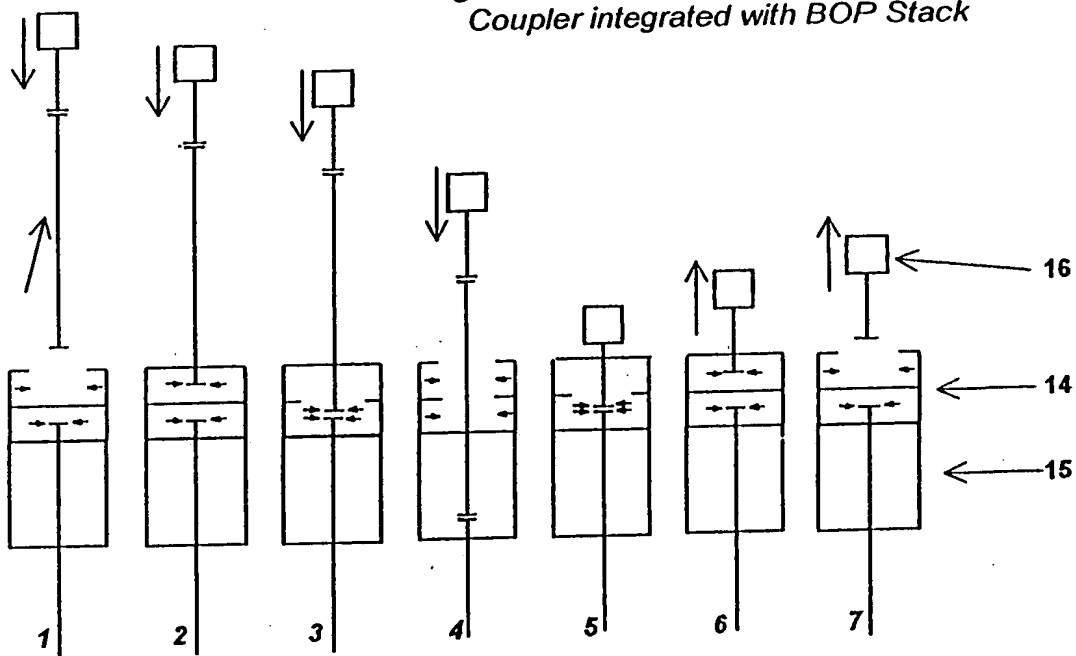


Fig. 8 During "Drilling on" – with a Top Drive
Coupler mounted on a short hoist

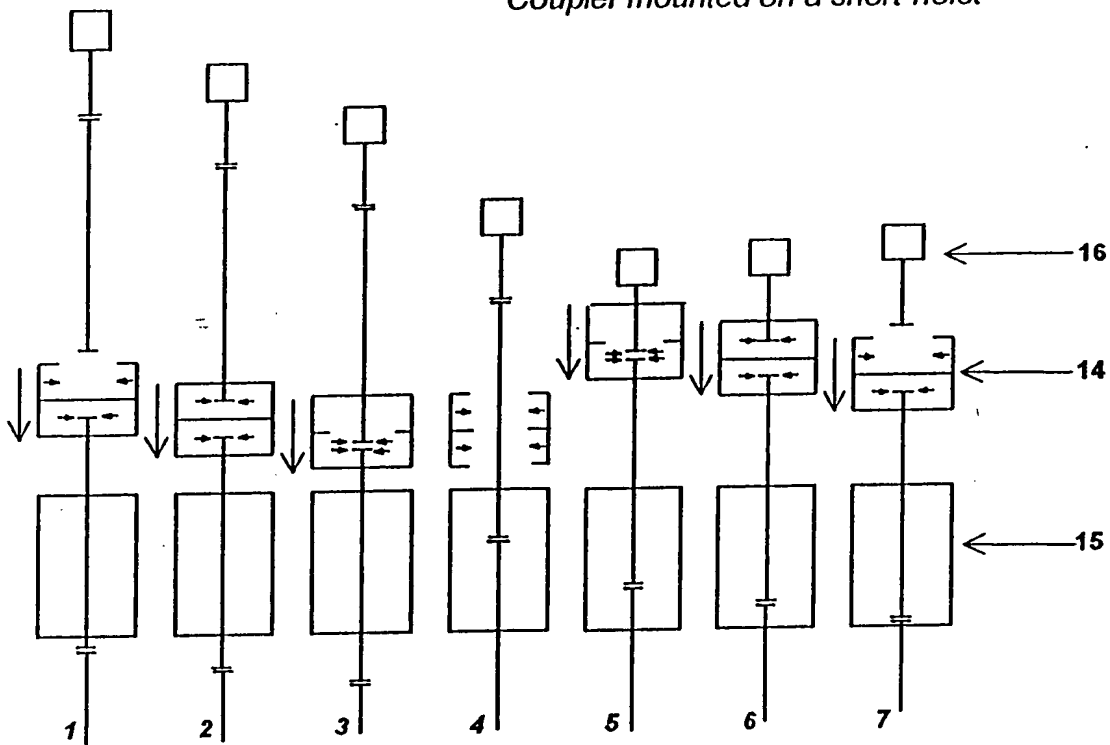


Fig. 9 During "Drilling on" – with a Bottom Drive
Coupler mounted on a short hoist

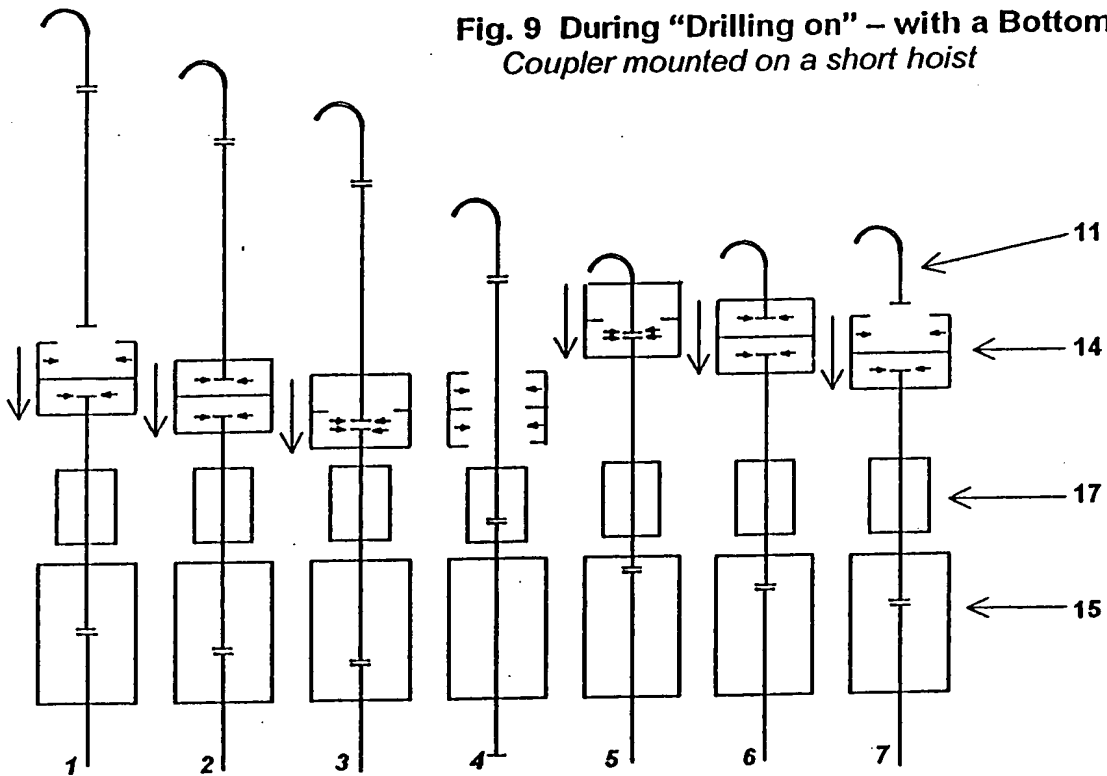


Fig. 10 During "Drilling on" – with a Mobile Rotary Table
Coupler mounted on a short or long hoist plus
Rotary Table on a long hoist.

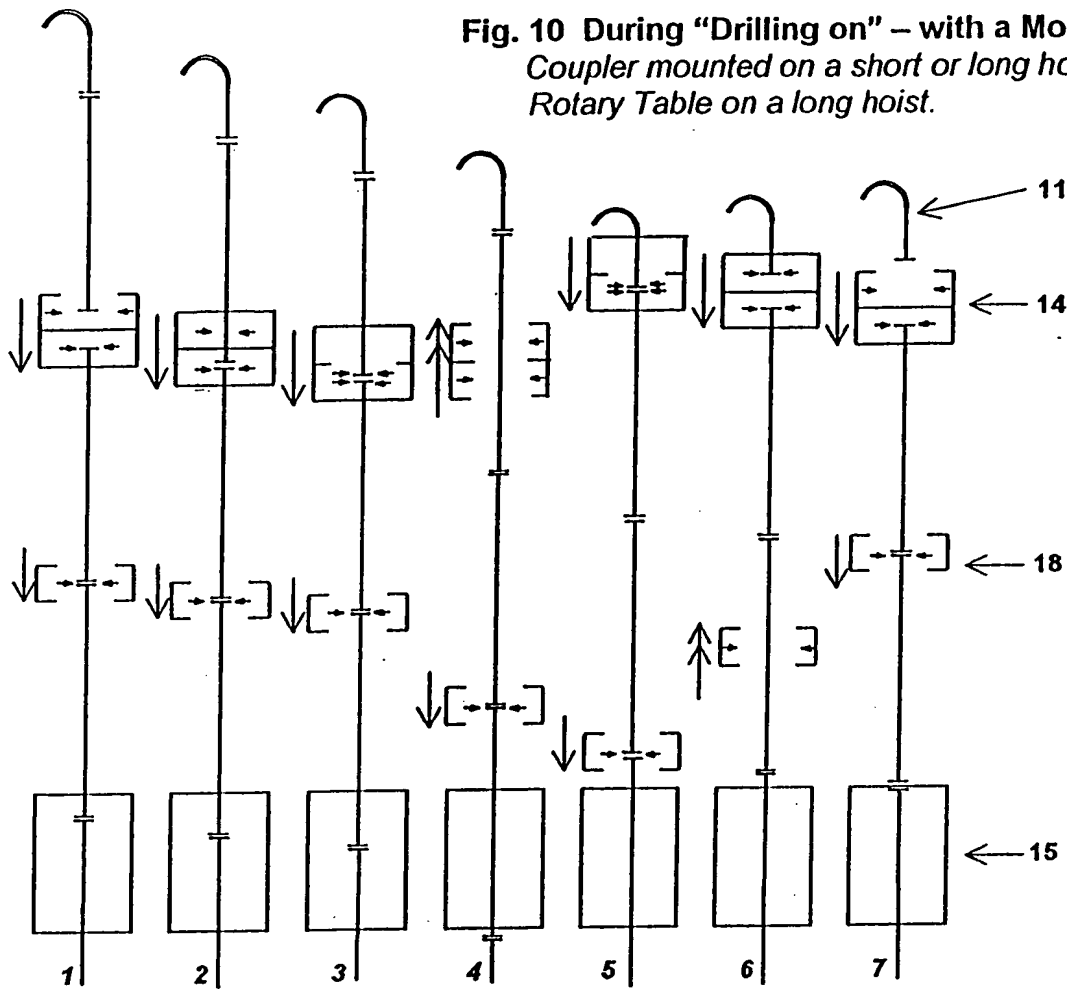
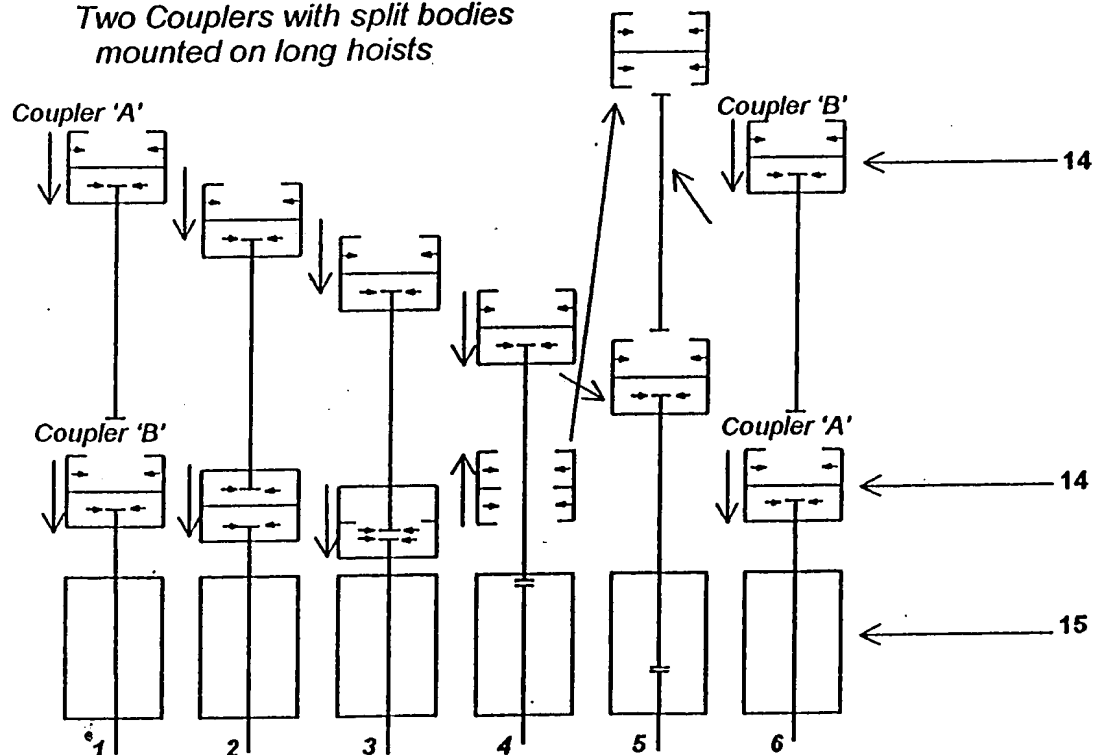


Fig. 11 During "Drilling on" without top or bottom drives
Two Couplers with split bodies
mounted on long hoists



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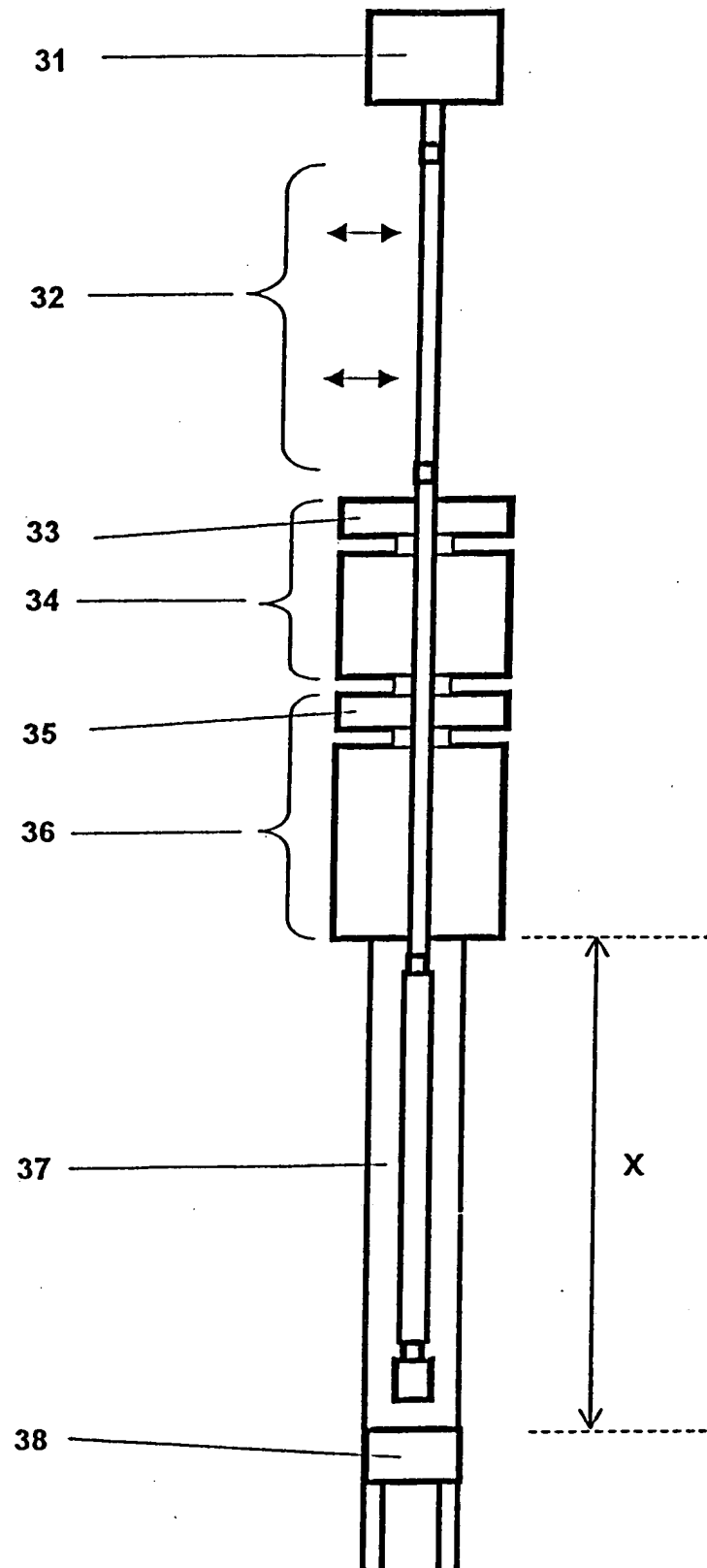


Fig. 12

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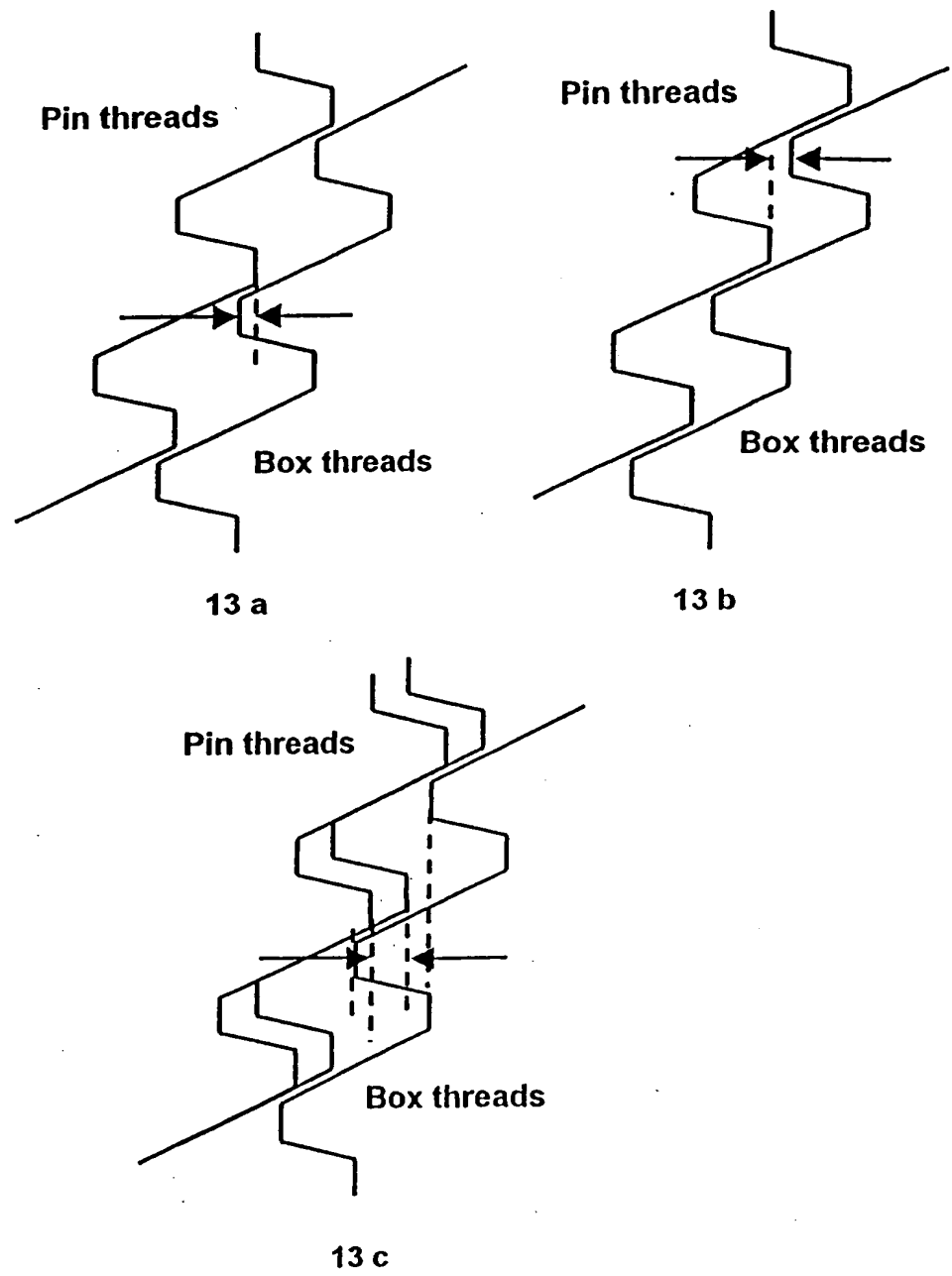


Fig. 13